

Course No. 1639

Public Health & Environmental Health Management Training Course

**PUBLIC HEALTH, ENVIRONMENT & SUSTAINABILITY MANAGEMENT
GOVERNMENT & PUBLIC SECTOR**

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Public Health & Environmental Health Management Training Course is a practical and professionally focused program designed to strengthen the capabilities required to plan, manage, monitor, and improve public health and environmental health programs. The course provides an integrated framework for understanding how environmental conditions, workplace exposures, operational activities, and community factors can affect human health, while developing practical approaches for prevention, risk reduction, monitoring, and organizational improvement.

The program addresses key areas of environmental health management, including environmental risk assessment, air and water quality, waste management, occupational health, exposure control, environmental monitoring, health surveillance, and emergency preparedness. Participants will learn how to identify potential hazards, assess their health and environmental consequences, establish appropriate controls, and monitor the effectiveness of preventive measures.

Particular attention is given to industrial and high-risk operational environments, including oil and gas facilities, energy operations, processing plants, field activities, storage facilities, and supporting infrastructure. The course enables participants to evaluate health and environmental risks associated with chemicals, emissions, wastewater, waste streams, physical hazards, biological agents, and operational incidents, while connecting environmental health practices with operational continuity and organizational resilience.

The course also develops practical capabilities in health and environmental governance, performance measurement, data analysis, reporting, and continuous improvement. Through case studies, workplace scenarios, and practical workshops, participants will develop actionable approaches for managing environmental health risks, improving preventive programs, preparing for health and environmental emergencies, and supporting informed decisions by management and other stakeholders.

Objectives

- Analyze the fundamental principles of public health and environmental health management and their relevance to organizational performance.
- Assess major environmental and occupational health hazards and determine their potential effects on workers, communities, and operations.

- Apply practical methodologies for identifying health and environmental hazards and evaluating exposure and risk levels.
- Develop preventive public health and environmental health programs aligned with organizational activities and risk profiles.
- Evaluate air quality, water quality, waste management, and other environmental factors that may affect human health.
- Analyze the relationship between workplace exposure, environmental conditions, and occupational or environmentally related health outcomes.
- Apply health and environmental monitoring techniques to collect, interpret, and use relevant data for preventive decision-making.
- Design practical emergency response approaches for health, environmental, contamination, and hazardous-material incidents.
- Evaluate the effectiveness of environmental health controls, preventive measures, and performance indicators.
- Strengthen coordination between health, safety, environment, operations, emergency response, and compliance functions.
- Develop professional health and environmental performance reports for management and decision makers.
- Design a continuous improvement plan for strengthening public health and environmental health management within an organization.

Who Should Attend

This course is designed for Public Health Managers, Environmental Health Managers, Environmental Health Specialists, Occupational Health Professionals, Health, Safety and Environment Managers, Environmental Specialists, Health and Safety Officers, Risk Management Professionals, Environmental Monitoring Specialists, Public Health Officers, Industrial Hygiene Professionals, and personnel responsible for health protection, environmental monitoring, exposure assessment, and preventive health programs.

It is also highly relevant to executives, department heads, operational managers, facility managers, emergency response leaders, sustainability professionals, compliance specialists, and decision makers within government entities, ministries, municipalities, healthcare organizations, industrial companies, and energy and oil and gas organizations. The course is particularly valuable for professionals working in upstream, midstream, and downstream operations who are responsible for

managing environmental health risks, workplace exposures, waste streams, water and air quality, emergency preparedness, and operational environmental performance.

Learning Outcomes

- Explain the relationship between public health, environmental health, occupational exposure, and community well-being.
- Identify major health and environmental hazards across industrial, operational, and community environments.
- Apply structured health and environmental risk assessment techniques to workplace and operational scenarios.
- Evaluate chemical, physical, biological, and environmental exposure pathways and their potential health impacts.
- Assess environmental monitoring programs covering air quality, water quality, waste, and other relevant environmental parameters.
- Develop preventive controls and risk reduction measures for identified environmental health hazards.
- Analyze health and environmental data to identify trends, emerging risks, and areas requiring corrective action.
- Develop performance indicators for monitoring the effectiveness of public health and environmental health programs.
- Prepare practical response plans for environmental incidents, contamination events, hazardous material releases, and other health-related emergencies.
- Evaluate the effectiveness of preventive and corrective actions and recommend appropriate improvements.
- Prepare clear health and environmental performance reports for senior management and relevant stakeholders.
- Develop an integrated improvement plan for public health and environmental health management.

Course Outline

DAY 01

Foundations of Public Health and Environmental Health Management

- Principles, objectives, and scope of public health management
- Fundamentals of environmental health and its relationship with human health
- Environmental determinants of health and workplace health
- Roles of government entities, organizations, and regulatory functions in health protection
- Identification of public health and environmental health hazards
- Health risks associated with industrial and operational environments
- Principles of prevention, health protection, and risk reduction
- Public health and environmental monitoring systems
- Health and environmental data collection and management
- Planning and governance of environmental health programs

PRACTICAL APPLICATION

Develop a preliminary public health and environmental health risk profile for an industrial or oil and gas facility

DAY 02

Environmental Health Risk Assessment and Exposure Management

- Principles of hazard identification and environmental health risk assessment
- Risk assessment methodologies and exposure evaluation
- Chemical, physical, biological, and environmental hazards
- Exposure pathways and sources of environmental contamination
- Occupational and environmental exposure assessment in industrial facilities
- Air, water, soil, and workplace environmental risks
- Hazardous chemicals and exposure prevention
- Understanding the relationship between exposure, dose, and potential health effects

DAY 02 — CONTINUED

- Risk classification and prioritization
- Selection of appropriate engineering, administrative, and operational controls
- Documentation and communication of environmental health risk assessments

PRACTICAL APPLICATION

Conduct a structured environmental health risk assessment for an operational facility and develop appropriate control measures

DAY 03

Air Quality, Water Management, and Waste Management

- Fundamentals of environmental air quality management
- Industrial emissions and common air pollutants
- Air quality monitoring and interpretation of environmental data
- Environmental and public health implications of air pollution
- Water quality management and contamination sources
- Public health risks associated with contaminated water
- Drinking water protection and monitoring principles
- Wastewater management and environmental health considerations
- Municipal, industrial, hazardous, and operational waste management
- Waste minimization, segregation, treatment, recovery, and safe disposal
- Environmental health risks associated with oil and gas waste streams

PRACTICAL APPLICATION

Evaluate an air, water, and waste management program and identify environmental health risks and improvement opportunities

DAY 04

Prevention Programs, Monitoring, and Health & Environmental Emergency Response

- Designing effective public health and environmental health prevention programs
- Health surveillance and environmental monitoring
- Early warning indicators for emerging health and environmental risks
- Environmental factors associated with occupational and community health concerns
- Emergency preparedness for environmental and public health incidents
- Response planning for spills, releases, contamination, and hazardous materials
- Incident containment and exposure control
- Coordination between health, safety, environment, operations, and emergency response teams
- Emergency communication and stakeholder coordination
- Environmental and health incident investigation
- Corrective and preventive action management

PRACTICAL APPLICATION

Conduct a simulated environmental health emergency involving a hazardous release and develop an integrated response and recovery plan

DAY 05

Governance, Performance Management, and Continuous Improvement

- Governance principles for public health and environmental health programs
- Developing organizational health and environmental policies and procedures
- Defining roles, responsibilities, authorities, and accountability
- Environmental health performance measurement and key indicators
- Evaluating the effectiveness of prevention and monitoring programs
- Data analysis and management reporting
- Compliance monitoring and internal performance reviews
- Integrating environmental health risks into enterprise and operational risk management

DAY 05 — CONTINUED

- Linking environmental health with sustainability and operational excellence
- Developing corrective action and continuous improvement frameworks
- Management review and evidence-based decision-making

FINAL WORKSHOP

Develop an integrated Public Health & Environmental Health Management improvement plan covering risk assessment, preventive controls, environmental monitoring, air and water quality, waste management, emergency response, performance indicators, governance, and implementation priorities

Register or Request More Information

Course page: <https://quest-training.com/courses/public-health-environmental-health-management-training-course>

Website: <https://quest-training.com>

Email: info@quest-training.com

Phone: +905016771440